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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/749,234	12/30/2003	Jae-Joon Yi	11038-179-999 9674 ·		
24341	7590 12/23/2004		EXAMINER		
MORGAN, I	LEWIS & BOCKIUS, LL	LORENCE, RICHARD M			
2 PALO ALTO 3000 EL CAM		ART UNIT	PAPER NUMBER		
PALO ALTO	, CA 94306	3681			
			DATE MAILED: 12/23/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Commence		10/749,23	4	YI, JAE-JOON	<b>D'</b>			
	Office Action Summary	Examiner		Art Unit				
		Richard M.	Lorence	3681				
 Period for	The MAILING DATE of this communical Reply	tion appears on the	cover sheet with the c	orrespondence add	dress			
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR IAILING DATE OF THIS COMMUNICAtions of time may be available under the provisions of 3 IX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) deteriod for reply is specified above, the maximum statuto to reply within the set or extended period for reply will, ply received by the Office later than three months after in patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no eve ation. ays, a reply within the statu ry period will apply and wil by statute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from to cation to become ABANDONED	ely filed will be considered timely the mailing date of this co (35 U.S.C. § 133).				
Status				. •				
1)⊠ F	Responsive to communication(s) filed o	n <u>30 December 20</u>	<u>003</u> .					
2a)□ 1	2a) This action is <b>FINAL</b> . 2b) This action is non-final.							
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims							
5)□ ( 6)⊠ ( 7)□ (	6) Claim(s) 1 and 2 is/are rejected.  7) Claim(s) is/are objected to.							
Applicatio	n Papers							
10)⊠ T ,4	the specification is objected to by the Earlie drawing(s) filed on 30 December 20 Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to by	003 is/are: a) ac n to the drawing(s) be correction is require	e held in abeyance. See ed if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF	R 1.121(d).			
Priority ur	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
2) D Notice 3) D Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- ation Disclosure Statement(s) (PTO-1449 or PTO- No(s)/Mail Date 12/30/03		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	· -152)			

Application/Control Number: 10/749,234

Art Unit: 3681

#### **DETAILED ACTION**

This is the first Office action on the merits of Application No. 10/749,234 filed on December 30, 2003. Claims 1 and 2 are currently pending.

# Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## **Drawings**

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the reference numeral '9" which is not mentioned in the description. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Buccerio '195.

Note Figure 1 which shows the multiple disc clutch assembly 10 including the clutch plates 20 mounted in retainer 18, the clutch discs 22 mounted on the hub 38, the piston 24 slidingly movable in the retainer, the spring retainer 26 disposed between the piston and hub, the spring 28, and the lip seal 44 on the piston and the not-numbered lip seal on the radially outer periphery of the spring retainer.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Buccerio '195 in view of Martin '518. While Buccerio does not explicitly state that either the piston or spring retainer are made from pressed steel, the thickness of the parts would seem to indicate that such is the case. Nonetheless the fabrication of pistons and

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spring retainers for multi-disc clutch transmissions from sheet metal (pressed steel) has long been known to be desirable in order to reduce size and cost, as evidenced by Martin at column 1, lines 8-14, which teaches forming a piston (column 2, lines 51-54) and spring retainer (column 3, lines 16-19) from sheet metal. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the piston and spring retainer of Buccerio from pressed steel (sheet metal) in order to reduce the weight and cost of these parts.

### **Prior Art Citation**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited by applicant in the IDS filed on December 30, 2004 has been considered. The examiner further cites Usoro '901, Gorman et al. '306 and Miura '729 (JP) which show hydraulically actuated multi-disc clutches for transmissions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Lorence whose telephone number is (703) 308-3062. The examiner can normally be reached on Mondays through Fridays from 9:00AM to 5:30PM.

872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (703) 308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Primary Examiner** 

Art Unit 3681

Lorence/rml